## -- ABSTRACT OF THE DISCLOSURE

An electronic device comprising at least one heatgenerating electronic component and a passive electronic
component in association with the heat generating component.
The passive component comprises a porous preform of green
silicon carbide or polygranular graphite, and a metal filling
the porosities of the preform which can be aluminum, an
aluminum alloy, magnesium or a magnesium alloy. The preform
forms about 50 to 90% by volume of the passive component.--

## IN THE SPECIFICATION:

Page 2, line 30, change " $16x10^{-6}$ " to  $--16x10^{-6}$ —.

Page 4, line 21, change "amagnetic" to

--non-magnetic--.

Page 8, line 12, change "43/6804" to --4376804--.

Paqe 10, line 9, after "shown" insert --.--.

## IN THE CLAIMS:

Please amend the claims as follows:

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1. (Amended) An electronic device comprising:

a) at least one heat-generating electronic component;

<u>and</u>

b) a passive electronic component in association with

said at least one heat-generating electronic component, said

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[Material for] passive electronic [components] <u>component</u> comprising:

a porous [ceramic body] <a href="mailto:preform">preform</a> comprising particles of green silicon carbide or polygranular graphite, and

a metal filling the porosities of said [ceramic body]

preform by penetration of metal in liquid form followed by

solidification, said metal selected from the group consisting

of [and comprising] aluminum, an aluminum alloy, magnesium

[or] and a magnesium alloy,

said [ceramic body] <a href="mailto:preform">preform</a> forming about 50 to 90% by volume of said [material] <a href="passive electronic component">passive electronic component</a>,

said [material] passive electronic component being formed by an isotropic composite made of two randomly oriented interpenetrating networks of a ceramic phase and a metallic phase, and having a coefficient of thermal expansion below about  $1.3 \times 10^{-6}$  K<sup>-1</sup> at  $30-400^{\circ}$ C and a density below about 3100 kg.m<sup>-3</sup>.

2. (Amended) The [material] <u>device</u> of claim [2] <u>1</u>, [having] <u>wherein said passive electronic component has</u> a coefficient of thermal expansion from 7x10<sup>-6</sup> to 13x10<sup>-6</sup>.K<sup>-1</sup>, thermal conductivity higher than 150 W.m<sup>-1</sup>.K<sup>-1</sup> and a Young's modulus higher than 120 GPa, <u>and</u> wherein particles of green

12/2 / b

81

11

131.14 31

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silicon carbide comprise from 50 to 75% by volume of said passive electronic component.

3. (Amended) The [material] device of claim 1, [having] wherein said passive electronic component has a coefficient of expansion from  $4 \times 10^{-6}$  to  $10 \times 10^{-6}$ . K-1, density below 2300 kg.m $^{-3}$ , thermal conductivity higher than 100 W.m $^{-1}$ .K $^{-1}$  and a Young's modulus below 50 GPa, and wherein polygranular graphite comprises from 60 to 90% by volume of said passive electronic component.

Claim 4, line 1, change "material" to --device--. Claim 5, line 1, change "material" to --device--. Please add the following new claims:

The device of claim 1, wherein said passive electronic component is selected from the group consisting of heat sinks, supports, pole pieces, laser diode supports, and encapsulating cases.

The device of claim 1, wherein said at least one heat-generating electronic component is an electronic circuit comprising a plurality of components.

The device of claim 7, wherein the circuit is in contact with and insulator, and the insulator is in contact with said passive electronic component

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